

Atlantic Richfield Company

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January 11, 2013

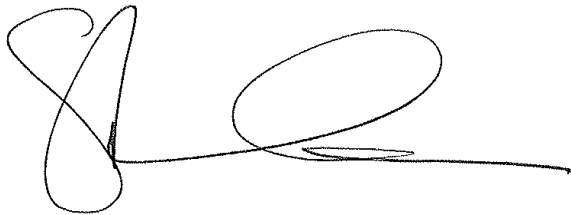
RECEIVED

By Alameda County Environmental Health at 10:07 am, Jan 30, 2013

Re: Fourth Quarter 2012 Status Report
Atlantic Richfield Company Station #771
899 Rincon Avenue
Livermore, California
ACEH Case RO0000200

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by,



Shannon Couch
Project Manager

Attachment



**FOURTH QUARTER 2012 STATUS REPORT
Atlantic Richfield Company Station #771
899 Rincon Avenue
Livermore, Alameda County, California**

Prepared for:

Ms. Shannon Couch
Atlantic Richfield Company
P.O. Box 1257
San Ramon, CA 94583

Prepared by:

Broadbent & Associates, Inc.
1324 Mangrove Avenue, Suite 212
Chico, California 95926
(530) 566-1400

January 11, 2013

No. 06-82-608



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Creating Solutions. Building Trust.

January 11, 2013

Project No. 06-82-608

Atlantic Richfield Company
P.O. Box 1257
San Ramon, CA 94583
Submitted via ENFOS

Attn.: Ms. Shannon Couch

Re: Fourth Quarter 2012 Status Report, Atlantic Richfield Company Station #771, 899 Rincon Avenue, Livermore, California; ACEH Case No. RO0000200

Dear Ms. Couch:

Provided herein is the *Fourth Quarter 2012 Status Report* for Atlantic Richfield Company (a BP affiliated company) Station #771 located at 899 Rincon Ave., Livermore, Alameda County, California (Site). This report presents a summary of current developments regarding the Site through the Fourth Quarter 2012.

Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

Sincerely,
BROADBENT & ASSOCIATES, INC.

Jason Duda
Project Scientist

Matthew G. Herrick, P.G., C.HG
Senior Hydrogeologist



Enclosure

cc: Mr. Jerry Wickham, Alameda County Environmental Health (Submitted via ACEH ftp site)
Mr. Paul M. Smith, Livermore-Pleasanton Fire Department, 3560 Nevada St.,
Pleasanton, California 94566
Mr. Chuck Headlee, California Regional Water Quality Control Board – San Francisco
Region (Submitted via GeoTracker)
Electronic copy uploaded to GeoTracker

**FOURTH QUARTER 2012
STATUS REPORT
STATION #771, LIVERMORE, CALIFORNIA**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Fourth Quarter 2012 Status Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for Station #771 located in Livermore, Alameda County, California. Reporting is being submitted to Alameda County Environmental Health (ACEH) consistent with the requirements under the legal authority of the California Regional Water Quality Control Board, as codified by the California Code of Regulations Title 23, Section 2652(d). A summary description of current developments regarding the site is provided below.

| | |
|-------------------------------------|---|
| Facility Name / Address: | Station #771 / 899 Rincon Avenue, Livermore, CA |
| Client Project Manager / Title: | Ms. Shannon Couch / Project Manager |
| Broadbent Contact: | Jason Duda, (530) 566-1400 |
| Broadbent Project No.: | 06-82-608 |
| Primary Regulatory Agency / ID No.: | ACEH / Case #RO0000200 |
| Current phase of project: | Monitoring and Case Closure Evaluation |
| List of Acronyms / Abbreviations: | See end of report text for list of acronyms/abbreviations used in report. |

WORK PERFORMED THIS QUARTER (Fourth Quarter 2012):

1. Submitted *Thrid Quarter 2012 Monitoring Report* (Broadbent, 10/26/2012).
2. No environment field work was conducted at the Site during Fourth Quarter 2012.

WORK SCHEDULED FOR NEXT QUARTER (First Quarter 2013):

1. Prepare and submit *Fourth Quarter 2012 Status Report* (contained herein).
2. Conduct additional evaluation of well MW-7 for the presence of LNAPL.
3. Conduct First Quarter 2013 semi-annual groundwater monitoring and sampling.
4. Prepare and submit Sensitive Receptor Survey.

GROUNDWATER MONITORING PLAN SUMMARY:

| | | |
|--|--------------------------------|-------------|
| Groundwater level gauging: | MW-1 through MW-11, RW-1, VW-1 | (1Q and 3Q) |
| | 1 | |
| Groundwater sample collection: | MW-4, MW-7, RW-1 | (1Q and 3Q) |
| | MW-2, MW-5, MW-6, MW-11, VW-1 | (3Q) |
| Biodegradation indicator parameter monitoring: | NA | |

DISCUSSION:

No environmental field activities took place at the Site during Fourth Quarter 2012. For reference, a Site Location Map is provided as Drawing 1. Provided as Drawing 2 is the Groundwater Elevation Contour and Analytical Summary Map from the *Third Quarter 2012 Monitoring Report* (Broadbent, 10/26/2012). The next groundwater monitoring and sampling event is scheduled to be conducted during the First Quarter 2013.

Submittal of the *Case Evaluation and Justification for No Further Action* dated January 5, 2012 was retracted in a letter dated September 12, 2012 in order to re-evaluate the case. It is recommended to continue monitoring the presence of LNAPL within well MW-7 on a quarterly basis at a minimum. Installation of an absorbent sock may be initiated if minor amounts of LNAPL are continually observed in MW-7. It is also recommended that semi-annual groundwater monitoring continue at the Site for now in accordance with the plan summary

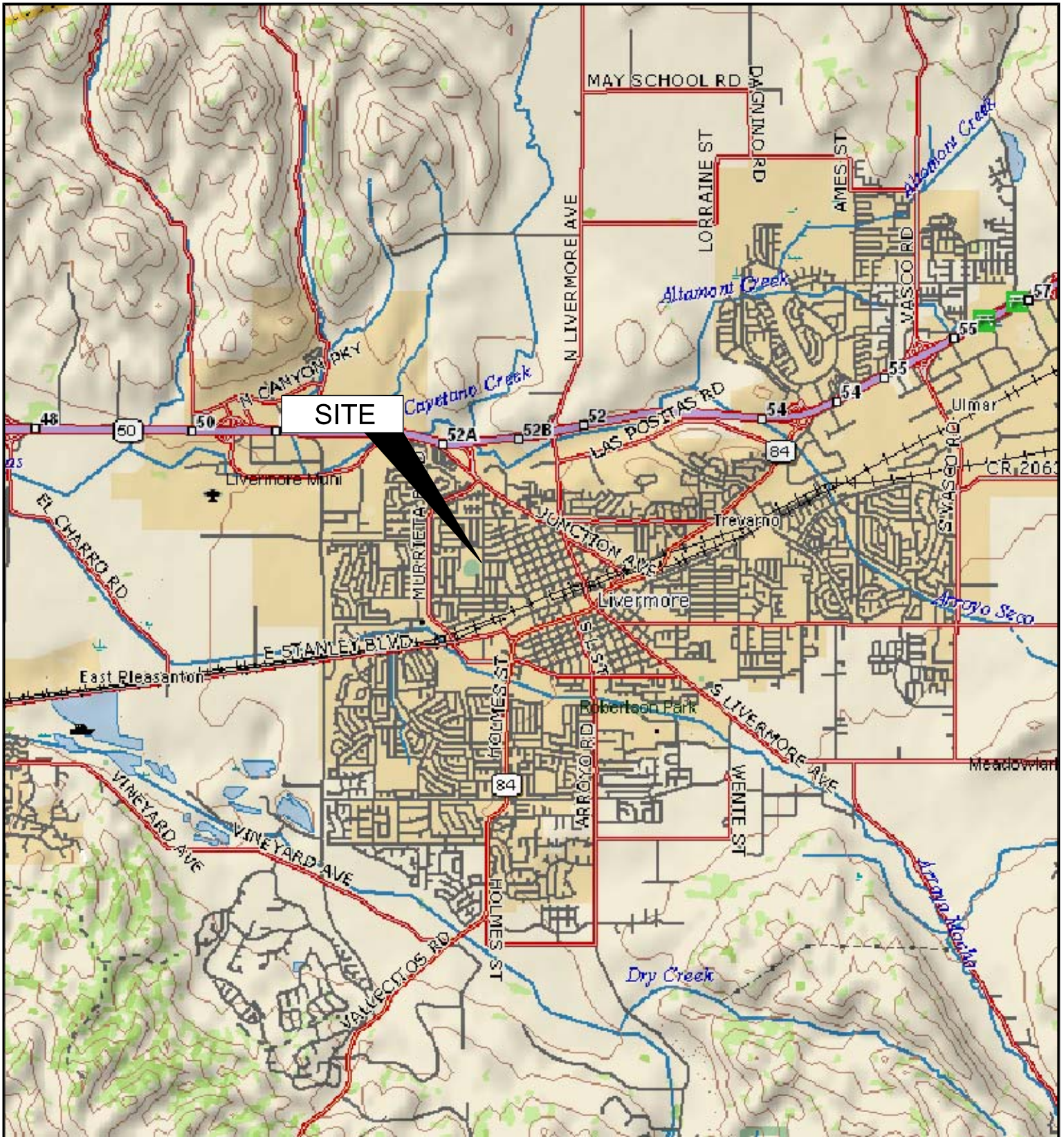
detailed above. Based on a recent conversation with ACEH personnel, a directive letter requesting additional characterization associated with the Site due to the proximity of a drinking water supply well is anticipated in the near future. In preparation for this directive, a Sensitive Receptor Survey is anticipated to be completed during First Quarter 2013.

ATTACHMENTS:

- Drawing 1: Site Location Map
- Drawing 2: Groundwater Elevation Contour and Analytical Summary Map, July 25, 2012

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

| | | | |
|--------------------|---|-------------------|--------------------------------|
| ACEH: | Alameda County Environmental Health | gal: | Gallons |
| BTEX: | Benzene, Toluene, Ethylbenzene, Total Xylenes | GRO: | Gasoline-Range Organics |
| 1,2-DCA: | 1,2-Dichloroethane | LNAPL: | Light Non-Aqueous Phase Liquid |
| DIPE: | Di-Isopropyl Ether | MTBE: | Methyl Tertiary Butyl Ether |
| DO: | Dissolved Oxygen | NO ₃ : | Nitrate as Nitrogen |
| DRO: | Diesel-Range Organics | ppb: | parts per billion |
| EDB: | 1,2-Dibromomethane | SO ₄ : | Sulfate |
| Eh: | Oxidation Reduction Potential | TAME: | Tert-Amyl Methyl Ether |
| EPA: | Environmental Protection Agency | TBA: | Tertiary Butyl Ether |
| ETBE: | Ethyl Tertiary Butyl Ether | TOC: | Top of Casing |
| Fe ²⁺ : | Ferrous Iron | µg/L: | micrograms per liter |
| ft/ft: | feet per foot | | |



APPROXIMATE SCALE (mi)

IMAGE SOURCE: DELORME



2000 Kirman Ave.
Reno, Nevada 89509

Project No.: 06-82-608 Date: 9/6/2012

Station #771
899 Rincon Avenue
Livermore, California

Site Location Map

Drawing

1

| |
|--------------|
| MW-11 |
| 412.41 |
| NS |
| NS |
| NS |
| A(3) |

| |
|-------------|
| MW-8 |
| 411.80 |
| NS |
| NS |
| NS |
| GO |

PINE ST.

413.0

Former Remediation Compound

414.0

Approx. Property Line



| |
|-------------|
| MW-6 |
| 415.05 |
| 500 |
| 3.3 |
| 10 |
| A(3) |

| |
|-------------|
| MW-3 |
| 415.36 |
| NS |
| NS |
| NS |
| GO |

415.0

STATION BUILDING

416.0

| |
|-------------|
| MW-1 |
| Dry |
| NS |
| NS |
| NS |
| GO |

| |
|-------------|
| VW-1 |
| 425.89* |
| 80 |
| <0.50 |
| <0.50 |
| A(3) |

| |
|-------------|
| MW-9 |
| 416.26 |
| NS |
| NS |
| NS |
| GO |

417.0

Existing USTs

Former USTs

| |
|-------------|
| RW-1 |
| 417.61 |
| <50 |
| <0.50 |
| <0.50 |
| SA(1,3) |

| |
|-------------|
| MW-5 |
| 417.23 |
| 500 |
| 11 |
| 11 |
| A(3) |

| |
|-------------|
| MW-4 |
| 417.99 |
| 1,700 |
| 86 |
| 49 |
| SA(1,3) |

| |
|-------------|
| MW-2 |
| 417.95 |
| NS |
| NS |
| NS |
| A(3) |

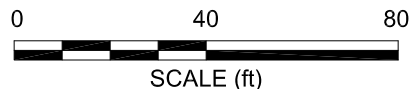
| |
|-------------|
| MW-7 |
| 416.54 |
| NS |
| NS |
| NS |
| SA(1,3) |

LEGEND

- Monitoring well location
- Vapor extraction well location
- Well ID** — Well designation
- ELEV** — Groundwater elevation (ft above MSL)
- GRO** — GRO, Benzene & MTBE concentrations (µg/L)
- Benzene**
- MTBE** — Sampling frequency
- SA or A**
- < Not detected at or above laboratory reporting limits
- * Not used in contouring
- NG Not gauged
- NS Not sampled
- A(3) Sampled annually during 3rd quarter
- GO Not sampled, gauged only
- SA(1,3) Sampled semi-annually, 1st & 3rd quarters
- 415.0 Groundwater elevation contour (ft above MSL)
- ← 0.03 Approximate groundwater flow direction and magnitude (ft/ft)
- Remediation piping

RINCON AVENUE

| |
|--------------|
| MW-10 |
| Dry |
| NS |
| NS |
| NS |
| GO |



NOTE: SITE MAP ADAPTED FROM URS FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



Project No.: 06-82-608 Date: 9/6/2012

Station #771
899 Rincon Avenue
Livermore, California

Groundwater Elevation Contour
and Analytical Summary Map
July 25, 2012

Drawing

2